

# GENERAL NOTES

- THIS PLAN SUPERSEDES ALL OTHER PLANS PREVIOUSLY APPROVED BY THE CITY OF CARLSBAD REGARDING IMPROVEMENTS SHOWN ON THIS SET OF PLANS.
- APPROVAL OF THIS PLAN DOES NOT LESSEN OR WAIVE ANY PORTION OF THE CARLSBAD MUNICIPAL CODE, RESOLUTION OF CONDITIONAL APPROVAL, CITY STANDARDS OR OTHER ADDITIONAL DOCUMENTS LISTED HEREON AS THEY MAY PERTAIN TO THIS PROJECT. THE ENGINEER IN RESPONSIBLE CHARGE SHALL REVISE THESE PLANS WHEN NON-CONFORMANCE IS DISCOVERED.
- CITY APPROVAL OF PLANS DOES NOT RELIEVE THE DEVELOPER OR ENGINEER-OF-WORK FROM RESPONSIBILITY FOR THE CORRECTION OF ERRORS AND OMISSIONS DISCOVERED DURING CONSTRUCTION. ALL PLAN REVISIONS SHALL BE PROMPTLY SUBMITTED TO THE CITY ENGINEER FOR APPROVAL.
- A RIGHT-OF-WAY PERMIT FROM THE CITY ENGINEER WILL BE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT OF WAY. PRIOR TO PERMIT ISSUANCE, A CERTIFICATE OF INSURANCE, AS WELL AS ADDITIONAL INSURED ENDORSEMENTS MUST BE FILED NAMING THE CITY OF CARLSBAD AS AN ADDITIONAL INSURED ON THE PERMITTEE'S POLICY IN THE MINIMUM AMOUNT OF \$1,000,000.00 FOR EACH OCCURRENCE OF LIABILITY. THE INSURANCE COMPANY WRITING THE POLICY MUST HAVE A RATING OF "A" OR BETTER AND A SIZE CATEGORY OF CLASS V OR BETTER AS ESTABLISHED BY "BEST'S" KEY RATING GUIDE.
- NO WORK SHALL BE COMMENCED UNTIL ALL PERMITS HAVE BEEN OBTAINED FROM THE CITY AND OTHER APPROPRIATE AGENCIES.
- REVISION OF THESE PLANS MAY BE REQUIRED IF THE PROPOSED IMPROVEMENTS ARE NOT CONSTRUCTED PRIOR TO THE DEADLINE DATE OF THE IMPROVEMENT AGREEMENT.
- NO REVISIONS WILL BE MADE TO THESE PLANS WITHOUT THE WRITTEN APPROVAL OF THE CITY ENGINEER, NOTED WITHIN THE REVISION BLOCK, ON THE APPROPRIATE SHEET OF THE PLANS AND TITLE SHEET.
- ORIGINAL DRAWINGS SHALL BECOME THE PROPERTY OF THE CITY UPON BEING SIGNED BY THE CITY ENGINEER.
- THE ORIGINAL DRAWING SHALL BE REVISED TO REFLECT AS-BUILT CONDITIONS BY THE ENGINEER-OF-WORK PRIOR TO FINAL ACCEPTANCE OF THE WORK BY THE CITY.
- ACCESS FOR FIRE AND OTHER EMERGENCY VEHICLES SHALL BE MAINTAINED TO THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.
- WHERE TRENCHES ARE WITHIN CITY EASEMENTS, A SOILS REPORT COMPRISED OF: (A) SUMMARY SHEET, (B) LABORATORY WORK SHEETS AND (C) COMPACTION CURVES, SHALL BE SUBMITTED BY A PROFESSIONAL ENGINEER OF THE STATE OF CALIFORNIA, PRINCIPALLY DOING BUSINESS IN THE FIELD OF APPLIED SOILS MECHANICS. THE SOILS REPORT WILL BE SUBMITTED TO THE CITY ENGINEERING INSPECTOR WITHIN TWO WORKING DAYS OF COMPLETION OF FIELD TESTS. THE WRITTEN FIELD COMPACTION REPORT(S) SHALL BE IMMEDIATELY SUBMITTED TO THE CITY ENGINEERING INSPECTOR UPON COMPLETION OF THE FIELD TESTS.
- A PRECONSTRUCTION MEETING SHALL BE HELD AT THE SITE PRIOR TO THE BEGINNING OF WORK AND SHALL BE ATTENDED BY ALL REPRESENTATIVES RESPONSIBLE FOR CONSTRUCTION, INSPECTION, SUPERVISION, TESTING AND ALL OTHER ASPECTS OF THE WORK. THE CONTRACTOR SHALL SCHEDULE THE MEETING BY CALLING (760) 438-3891 AT LEAST FIVE (5) WORKING DAYS PRIOR TO STARTING CONSTRUCTION. APPROVED DRAWINGS MUST BE AVAILABLE PRIOR TO SCHEDULING. THE GRADING PERMIT WILL BE PROVIDED BY THE PROJECT INSPECTOR AT THE MEETING.
- ALL INSPECTION REQUESTS OTHER THAN FOR PRECONSTRUCTION MEETING WILL BE MADE BY CALLING THE ENGINEERING 24-HOUR INSPECTION REQUEST LINE AT (760) 438-3891. INSPECTION REQUESTS MUST BE RECEIVED PRIOR TO 2:00 P.M. ON THE DAY BEFORE THE INSPECTION IS NEEDED. INSPECTIONS WILL BE MADE THE NEXT WORK DAY UNLESS YOU REQUEST OTHERWISE. REQUESTS MADE AFTER 2:00 P.M. WILL BE SCHEDULED FOR TWO FULL WORK DAYS LATER.
- THE OWNER AND/OR APPLICANT THROUGH THE DEVELOPER AND/OR CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
- THE CONTRACTOR SHALL CONFORM TO LABOR CODE SECTION 6705 BY SUBMITTING A DETAIL PLAN TO THE CITY ENGINEER AND/OR CONCERNED AGENCY SHOWING THE DESIGN OF SHORING, BRACING SLOPING OR OTHER PROVISIONS TO BE MADE OF WORKER PROTECTION FROM THE HAZARD OF CAVING GROUND DURING THE EXCAVATION OF SLOPE, TRENCH OR TRENCHES OR DURING THE PIPE INSTALLATION THEREIN. THIS PLAN MUST BE PREPARED FOR ALL TRENCHES FIVE FEET (5') OR MORE IN DEPTH AND APPROVED BY THE CITY ENGINEER AND/OR CONCERNED AGENCY PRIOR TO EXCAVATION. IF THE PLAN VARIES FROM THE SHORING SYSTEM STANDARDS ESTABLISHED BY THE CONSTRUCTION SAFETY ORDERS, TITLE 8, CALIFORNIA ADMINISTRATIVE CODE, THE PLAN SHALL BE PREPARED BY A REGISTERED ENGINEER AT THE CONTRACTOR'S EXPENSE. A COPY OF THE OSHA EXCAVATION PERMIT MUST BE SUBMITTED TO THE INSPECTOR PRIOR TO EXCAVATION.
- IF ANY ARCHAEOLOGICAL RESOURCES ARE DISCOVERED WITHIN ANY WORK ZONE DURING CONSTRUCTION OPERATIONS, ALL OPERATIONS SHALL CEASE IMMEDIATELY. THE PERMITTEE WILL NOTIFY THE CITY ENGINEER OPERATIONS WILL NOT RESTART UNTIL THE PERMITTEE HAS RECEIVED WRITTEN AUTHORITY FROM THE CITY ENGINEER TO DO SO.
- ALL OPERATIONS CONDUCTED ON THE SITE OR ADJACENT THERETO, INCLUDING WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR OPERATION OF TRUCKS, EARTHMOVING, CONSTRUCTION EQUIPMENT AND ANY ASSOCIATED GRADING EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00 A.M. AND SUNSET EACH DAY, MONDAY THRU FRIDAY AND NO EARTHMOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON WEEKENDS OR HOLIDAYS. (A LIST OF CITY HOLIDAYS IS AVAILABLE AT THE ENGINEERING DEPARTMENT COUNTER.)
- ALL OFF-SITE HAUL ROUTES SHALL BE SUBMITTED BY THE CONTRACTOR TO THE CITY ENGINEER FOR APPROVAL TWO FULL WORKING DAYS PRIOR TO BEGINNING OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEBRIS OR DAMAGE OCCURRING ALONG THE HAUL ROUTE OR ADJACENT STREETS AS A RESULT OF THE GRADING OPERATION.
- NO BLASTING SHALL BE COMMENCED WITHOUT A CITY ENGINEER APPROVED BLASTING PROGRAM.
- THE EXISTENCE AND LOCATION OF UTILITY STRUCTURES AND FACILITIES SHOWN ON THE CONSTRUCTION PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. ATTENTION IS CALLED TO THE POSSIBLE EXISTENCE OF OTHER UTILITY FACILITIES OR STRUCTURES NOT SHOWN OR IN A LOCATION DIFFERENT FROM THAT SHOWN ON THE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN ON THE PLANS AND ANY OTHER EXISTING FACILITIES OR STRUCTURES NOT SHOWN.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY BEFORE THE CONSTRUCTION TO PERMIT THE REVISION OF THE CONSTRUCTION PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
- THE CONTRACTOR SHALL NOTIFY AFFECTED UTILITY COMPANIES (SEE BELOW) AT LEAST 2 FULL WORKING DAYS PRIOR TO STARTING GRADING NEAR THEIR FACILITIES AND SHALL COORDINATE THE WORK WITH A COMPANY REPRESENTATIVE.

UNDERGROUND SERVICE ALERT (800)422-4133  
SDG&E (800)660-7343  
SBC (PACIFIC BELL) (800)892-0123  
ADELPHI CABLE COMMUNICATIONS (760)438-1741  
COX COMMUNICATIONS (760)806-9809  
CITY OF CARLSBAD (STREETS & STORM DRAIN) (760)434-2980  
CITY OF CARLSBAD (SEWER, WATER & RECLAIMED WATER) (760)438-2722  
SAN DIEGO WATER DISTRICT (760)633-2650  
MELICADIA WASTEWATER DISTRICT (760)753-0155  
VALLECITOS WATER DISTRICT (760)744-0460  
JUVENHMAN WATER DISTRICT (760)753-6466  
BUENA SANITATION DISTRICT (760)726-1340

\*AS APPROPRIATE

# STREET NOTES

- ACTUAL STRUCTURAL SECTIONS WILL BE DETERMINED AFTER "R" VALUE TESTS HAVE BEEN CONDUCTED BY A PROFESSIONAL ENGINEER OF THE STATE OF CALIFORNIA, PRINCIPALLY DOING BUSINESS IN THE FIELD OF APPLIED SOIL MECHANICS, ON THE PREPARED BASEMENT SOIL. THE "R" VALUE TESTS AND THE ENGINEERED STRUCTURAL SECTION MUST BE SUBMITTED TO THE ENGINEERING INSPECTOR FOR REVIEW AND APPROVAL A MINIMUM OF TWO (2) CITY WORKING DAYS BEFORE THE WORK BEGINS.
- STREET LIGHTS SHALL BE INSTALLED AS SHOWN ON THESE PLANS. UNDERGROUND CONDUIT RUNS, SERVICE POINTS AND HAND-HOLES SHALL BE SHOWN ON THE "AS-BUILT" PLANS. NO DIRECT BURIAL STREET LIGHT FOUNDATIONS WILL BE ALLOWED. ALL LUMINAIRES SHALL BE "CUT OFF" TYPE.
- ALL UNDERGROUND UTILITIES AND LATERALS SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF CURBS, CROSS GUTTERS OR SURFACING OF STREETS.
- STORM DRAIN PIPE SHALL BE REINFORCED CONCRETE PIPE WITH A MINIMUM D-LOAD OF 1,350. FOR PRIVATE STORM DRAIN PIPES, UP TO 15" PVC MAY BE UTILIZED PROVIDED DEPTH IS LESS THAN 15 FEET AND BACKFILLED WITH 3/4" ROCK PER SORS 5-4 TYPE "C" AND PIPE MEETS ASTM STANDARD 3034 FOR SDR 35 SOLID WALL PIPE.
- WHERE AN EXISTING PIPE LINE IS TO BE ABANDONED IT SHALL BE REMOVED WITHIN TWENTY FEET OF BUILDING OR STREET AREAS AND REPLACED WITH PROPERLY COMPACTED SOILS. IN OTHER AREAS THE PIPE WILL BE PLUGGED WITH CONCRETE OR REMOVED AS APPROVED BY THE CITY ENGINEER.
- WHEELCHAIR RAMPS SHALL BE INSTALLED PER REQUIREMENTS OF TITLE 24, CALIFORNIA ADMINISTRATIVE CODE.
- STREET TREES SHALL BE INSTALLED PER SECTION IV D.3 OF THE CITY OF CARLSBAD LANDSCAPE MANUAL AND LOCAL RESIDENTIAL STREET STANDARDS.
- FIRE HYDRANT MARKERS SHALL BE PLACED IN THE STREET WITHIN THE LIMITS OF WORK OF THIS PLAN PER SORS DWG M19.
- ALL SURVEY MONUMENTS AND POINTS THAT ARE DISTURBED BY THIS WORK SHALL BE REESTABLISHED, PERPETUATED, AND DOCUMENTED PER THE PROFESSIONAL LAND SURVEYORS ACT.
- TWO (2) SETS OF SURVEY (CUT) SHEETS SHALL BE PROVIDED TO THE CITY ENGINEERING INSPECTOR.

# SEWER NOTES

- SEWER MAIN AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "CARLSBAD MUNICIPAL WATER DISTRICT'S SEWER SYSTEM - DESIGN CRITERIA, STANDARD DRAWING AND SPECIFICATIONS," AND THE STANDARD SPECIFICATIONS, MARCH 1993, AND THE STANDARD SPECIFICATIONS FOR PUBLIC POTABLE WATER CONSTRUCTION, LATEST EDITION (GREEN BOOK).
- THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE DIVISION OF INDUSTRIAL SAFETY BEFORE ANY EXCAVATION AND SHALL ADHERE TO ALL PROVISIONS OF THE STATE CONSTRUCTION SAFETY ORDERS.
- BEFORE ANY CONNECTION TO THE DISTRICT'S EXISTING SYSTEM, A PERMIT SHALL BE OBTAINED FROM THE DISTRICT. IT MUST BE SIGNED AND APPROVED BY THE DISTRICT'S ENGINEER AND SUPERINTENDENT.
- BEFORE CONSTRUCTION BEGINS IN ANY PUBLIC RIGHT OF WAY, A CITY RIGHT OF WAY PERMIT SHALL BE REQUIRED.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF CARLSBAD ENGINEERING INSPECTION 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION. (TELEPHONE NO. [619] 438-3891)

# WATER NOTES

- WATER MAIN AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "CARLSBAD MUNICIPAL WATER DISTRICT'S PROCEDURAL GUIDE - GENERAL DESIGN REQUIREMENTS AND STANDARDS AND SPECIFICATIONS FOR CONSTRUCTION OF PUBLIC POTABLE WATER FACILITIES, DATED OCTOBER 1993, OR THE LATEST REVISION.
- THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE DIVISION OF INDUSTRIAL SAFETY BEFORE ANY EXCAVATION AND SHALL PROVIDE PROOF OF OSHA NOTIFICATION AND SHALL ADHERE TO ALL PROVISIONS OF THE STATE CONSTRUCTION SAFETY ORDERS.
- BEFORE ANY CONNECTION OR SHUT DOWN OF VALVES ON EXISTING C.M.W.D. LINES, A PERMIT SHALL OBTAINED FROM THE C.M.W.D. OFFICE AND MUST BE SIGNED AND APPROVED BY DISTRICT ENGINEER AND DISTRICT SUPERINTENDENT.
- A PRECONSTRUCTION MEETING SHALL BE HELD A MINIMUM OF 7 DAYS BEFORE CONSTRUCTION BEGINS. THE CONTRACTOR SHALL NOTIFY THE CITY OF CARLSBAD ENGINEERING INSPECTION 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION (TELEPHONE NO. [619] 438-3891) FOR SCHEDULING.
- NO TREES OR STRUCTURES SHALL BE ALLOWED IN THE WATER LINE EASEMENT. ALL EXISTING TREES AND STRUCTURES SHALL BE REMOVED PRIOR TO COMMENCEMENT OF WORK - ANY EXCEPTIONS SHALL REQUIRE WRITTEN PERMISSION FROM THE DISTRICT ENGINEER.
- THE EXACT HORIZONTAL AND VERTICAL ALIGNMENT AND TYPE OF MATERIALS OF THE FIRE LINE LOCATED BETWEEN THE DETECTOR CHECK VALVE AND BUILDING SHALL BE DETERMINED BY THE CITY OF CARLSBAD FIRE MARSHAL.
- ALL RECLAIMED WATER MAINS AND APPURTENANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "CARLSBAD RECLAMATION RULES AND REGULATIONS FOR THE CONSTRUCTION OF RECLAIMED WATER MAINS - CARLSBAD MUNICIPAL WATER DISTRICT", OCTOBER 1993 OR AS AMENDED.
- ALL BURIED COPPER PIPING AND APPURTENANCES SHALL BE PROTECTED BY MEANS OF CATHODIC PROTECTION. IF DEVELOPER/OWNER CONDUCTS A SOILS TEST REPORT AND DEMONSTRATES THAT PROTECTION CAN BE PERFORMED IN ANOTHER MANNER, THE DISTRICT ENGINEER WILL CONSIDER AN ALTERNATIVE FORM OF PROTECTION.

# "DECLARATION OF RESPONSIBLE CHARGE"

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF CARLSBAD DOES NOT RELIEVE ME AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

FIRM: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_

CITY, ST.: \_\_\_\_\_  
TELEPHONE: \_\_\_\_\_

BY: \_\_\_\_\_ (NAME OF ENGINEER) DATE: \_\_\_\_\_

R.C.E. NO.: \_\_\_\_\_  
REGISTRATION EXPIRATION DATE: \_\_\_\_\_

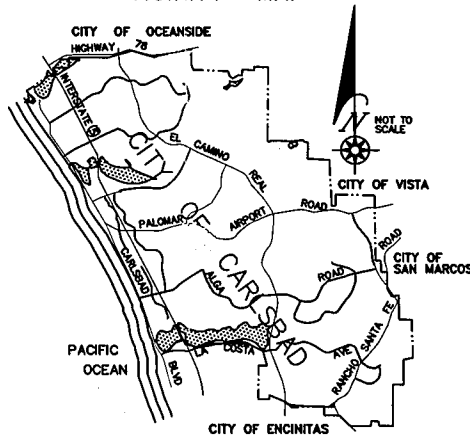
# CMWD CONSTRUCTION NOTES

- ALL POTABLE WATER SERVICES SHALL BE 1" AND ALL POTABLE WATER METERS SHALL BE 5/8" (UNLESS OTHERWISE NOTED ON PLANS).
- ALL WATER METER BOXES SHALL BE 17"x30"x12" POLYMER CONCRETE AS MANUFACTURED BY ARMORCAST OR EQUAL.
- MINIMUM SPACING BETWEEN POTABLE WATER LATERALS AND SEWER SERVICES SHALL BE 5 FEET.
- THE TOP OF THE WATER METER BOXES SHALL BE FLUSH WITH THE FINISHED SURFACE GRADE.

# DEVELOPER

NAME: \_\_\_\_\_  
ADDRESS: \_\_\_\_\_

# VICINITY MAP



# SOURCE OF TOPOGRAPHY

TOPOGRAPHY SHOWN ON THESE PLANS WAS GENERATED BY \_\_\_\_\_  
METHODS FROM INFORMATION GATHERED ON \_\_\_\_\_  
2D \_\_\_\_\_ BY \_\_\_\_\_  
TOPOGRAPHY SHOWN HEREON CONFORMS TO NATIONAL MAP ACCURACY STANDARDS.

# PROJECT LOCATION

THIS PROJECT IS LOCATED WITHIN ASSESSORS PARCEL NUMBER(S) \_\_\_\_\_  
THE CALIFORNIA COORDINATE INDEX OF THIS PROJECT IS \_\_\_\_\_  
N \_\_\_\_\_ E \_\_\_\_\_

# BENCH MARK

DESCRIPTION: \_\_\_\_\_  
LOCATION: \_\_\_\_\_  
RECORDED: \_\_\_\_\_  
ELEVATION: \_\_\_\_\_ DATUM: \_\_\_\_\_

# WORK TO BE DONE

THE IMPROVEMENT WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING DOCUMENTS, CURRENT AT THE TIME OF CONSTRUCTION, AS DIRECTED BY THE CITY ENGINEER.

- CARLSBAD MUNICIPAL CODE
- CITY OF CARLSBAD STANDARDS
- THIS SET OF PLANS
- RESOLUTION NO. \_\_\_\_\_ DATED \_\_\_\_\_
- THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK).
- SOILS REPORT AND RECOMMENDATIONS BY \_\_\_\_\_ DATED \_\_\_\_\_
- THE SAN DIEGO AREA REGIONAL STANDARD DRAWINGS AND AS MAY BE MODIFIED BY THE CITY OF CARLSBAD STANDARDS.
- CALIFORNIA COASTAL COMMISSION DEVELOPMENT PERMIT CONDITIONS DATED \_\_\_\_\_
- THE CARLSBAD MUNICIPAL WATER DISTRICT'S STANDARDS AND SPECIFICATIONS FOR WATER, SEWER AND RECLAIMED WATER.
- STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED BY \_\_\_\_\_ DATED \_\_\_\_\_ WDD NO. 937C
- STORM WATER MANAGEMENT PLAN (SWMP) PREPARED BY \_\_\_\_\_ DATED \_\_\_\_\_

# LEGEND

DESCRIPTION DWG. NO. SYMBOL QUANTITY

# REFERENCE DRAWINGS

# BASIS OF BEARINGS

CITY OF CARLSBAD FIRE DEPARTMENT REQUIREMENTS		"AS BUILT"	
NO. OF F.H.(S) _____ F.FLOW _____ G.P.M. OUT OF _____ F.H.(S).		P.E. _____ EXP. _____ DATE _____	
BLOG. SPRINKLED YES/NO. . . F.FLOW _____ G.P.M.		REVIEWED BY: _____ DATE _____	
FIRE MARSHAL _____ DATE _____		INSPECTOR _____ DATE _____	
CITY OF CARLSBAD MUNICIPAL WATER DISTRICT		SHEET _____ CITY OF CARLSBAD SHEETS _____	
ROBERT J. WOJCIK DEPUTY CITY ENGINEER R.C.E. 33698 EXP. 6/30/06		ENGINEERING DEPARTMENT	
DATE _____		IMPROVEMENT PLANS FOR:	
DATE _____		APPROVED _____ LLOYD B. HUBBS	
DATE _____		CITY ENGINEER PE 23889 EXPIRES 12/31/05 DATE _____	
DATE _____		DWN BY: _____ PROJECT NO. _____	
DATE _____		CHKD BY: _____ DRAWING NO. _____	
DATE _____		RVMD BY: _____	
DATE	INITIAL	REVISION DESCRIPTION	DATE
ENGINEER OF WORK			OTHER APPROVAL
			CITY APPROVAL



EROSION CONTROL NOTES

1. IN CASE EMERGENCY WORK IS REQUIRED, CONTACT \_\_\_\_\_ AT \_\_\_\_\_ (PHONE NUMBER)
2. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS EMINENT.
3. DEVICES SHOWN ON PLANS SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE ENGINEERING INSPECTOR.
4. THE CONTRACTOR SHALL RESTORE ALL EROSION CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
5. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE CITY ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES WHICH MAY ARISE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
7. ALL EROSION CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON.
8. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
9. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE FIVE (5) DAY RAIN PROBABILITY FORECAST EXCEEDS FORTY PERCENT (40%). SILT AND OTHER DEBRIS SHALL BE REMOVED AFTER EACH RAINFALL.
10. ALL GRAVEL BAGS SHALL BE BURLAP TYPE WITH 3/4 INCH MINIMUM AGGREGATE.
11. SHOULD GERMINATION OF HYDROSEEDS FAIL TO PROVIDE EFFECTIVE COVERAGE OF GRADED SLOPES (90% COVERAGE) PRIOR TO NOVEMBER 15, THE SLOPES SHALL BE STABILIZED BY PUNCH STRAW INSTALLED IN ACCORDANCE WITH SECTION 35.023 OF THE EROSION AND SEDIMENT CONTROL HANDBOOK OF THE DEPARTMENT OF CONSERVATION, STATE OF CALIFORNIA.

TEMPORARY EROSION CONTROL  
PLANTING AND IRRIGATION

ALL PERMANENT AND TEMPORARY EROSION CONTROL PLANTING AND IRRIGATION SHALL BE INSTALLED AND MAINTAINED AS REQUIRED IN SECTION 212 OF THE STANDARD SPECIFICATIONS AND THE FOLLOWING:

- A. HYDROSEEDING SHALL BE APPLIED TO:
- ALL SLOPES THAT ARE GRADED 6:1 (HORIZONTAL TO VERTICAL) OR STEEPER WHEN THEY ARE:
    - THREE FEET OR MORE IN HEIGHT AND ADJACENT TO A PUBLIC WALL OR STREET.
    - ALL SLOPES 4 FEET OR MORE IN HEIGHT.
  - AREAS GRADED FLATTER THAN 6:1 WHEN ANY OF THE FOLLOWING CONDITIONS EXIST:
    - NOT SCHEDULED FOR IMPROVEMENTS (CONSTRUCTION OR GENERAL LANDSCAPING) WITHIN 60 DAYS OF ROUGH GRADING.
    - IDENTIFIED BY THE PARKS AND RECREATION DIRECTOR AS HIGHLY VISIBLE TO THE PUBLIC.
    - HAVE ANY SPECIAL CONDITION IDENTIFIED BY THE CITY ENGINEER THAT WARRANTS IMMEDIATE TREATMENT.
- B. HYDROSEEDING AREAS SHALL BE IRRIGATED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
- ALL SLOPES THAT ARE GRADED 6:1 OR STEEPER AND THAT ARE:
    - THREE TO EIGHT FEET IN HEIGHT SHALL BE IRRIGATED BY HAND WATERING FROM QUICK COUPLERS/HOSE BIBS OR A CONVENTIONAL SYSTEM OF LOW PRECIPITATION SPRINKLER HEADS PROVIDING 100% COVERAGE.
    - GREATER THAN 8 FEET IN HEIGHT SHALL BE WATERED BY A CONVENTIONAL SYSTEM OF LOW PRECIPITATION SPRINKLER HEADS PROVIDING 100% COVERAGE.
  - AREAS SLOPED LESS THAN 6:1 SHALL BE IRRIGATED AS APPROVED BY THE CITY ENGINEER. PRIOR TO HYDROSEEDING, THE DEVELOPER SHALL SUBMIT A PROPOSED SCHEME TO PROVIDE IRRIGATION TO THE CITY ENGINEER. THE PROPOSAL SHALL BE SPECIFIC REGARDING THE NUMBERS, TYPES AND COSTS OF THE ELEMENTS OF THE PROPOSED SYSTEM.
  - IRRIGATION SHALL MAINTAIN THE MOISTURE LEVEL OF THE SOIL AT THE OPTIMUM LEVEL FOR THE GROWTH OF THE HYDROSEEDING GROWTH.
- C. HYDROSEEDING MIX SHALL CONSIST OF ALL OF THE FOLLOWING:
- SEED MIX SHALL CONSIST OF NO LESS THAN:
    - 20 lbs. PER ACRE OF ROSE CLOVER
    - 20 lbs. PER ACRE OF ZORRO PESCUE
    - 3 lbs. PER ACRE OF E SCHOOL CIA CALIFORNICA
    - 4 lbs. PER ACRE OF ACHILLEA MILLEFOLIA
    - 3 lbs. PER ACRE OF ALYSSUM (CARPET OF SNOW)
    - 1/2 lb. PER ACRE OF DIMORPHOLECA
  - ITEMS a, d, e, AND f OF THIS SUBSECTION MAY BE OMITTED ON LOCATIONS WHERE THE AREA BEING HYDROSEEDING IS NOT VISIBLE FROM EITHER A PUBLIC STREET OR RESIDENTIAL STRUCTURES.
  - ITEM a OF THIS SUBSECTION MUST BE INOCULATED WITH A NITROGEN FIXING BACTERIA AND APPLIED DRY EITHER BY DRILLING OR BROADCASTING BEFORE HYDROSEEDING.
  - ALL SEED MATERIALS SHALL BE TRANSPORTED TO THE JOBSITE IN UNOPENED CONTAINERS WITH THE CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE CERTIFICATION TAG ATTACHED TO, OR PRINTED ON SAID CONTAINERS.
  - NON-PHYTO-TOXIC WETTING AGENTS MAY BE ADDED TO THE HYDROSEED SLURRY AT THE DISCRETION OF THE CONTRACTOR.
- TYPE 1 MULCH APPLIED AT THE RATE OF NO LESS THAN 2000 lbs PER ACRE. TYPE 6 MULCH (STRAW) MAY BE SUBSTITUTED, ALL OR PART, FOR HYDRAULICALLY APPLIED FIBER MATERIAL. WHEN STRAW IS USED IT MUST BE ANCHORED TO THE SLOPE BY MECHANICALLY PUNCHING NO LESS THAN 50% OF THE STRAW INTO THE SOIL.
  - FERTILIZER CONSISTING OF AMMONIUM PHOSPHATE SULFATE, 16-20-0, WITH 15% SULPHUR APPLIED AT THE RATE OF 500 lbs. PER ACRE.
- D. AREAS TO BE HYDROSEEDING SHALL BE PREPARED PRIOR TO HYDROSEEDING BY:
- ROUGHENING THE SURFACE TO BE PLANTED BY ANY OR A COMBINATION OF:
    - TRACK WALKING SLOPES STEEPER THAN 6:1
    - HARROWING AREAS 6:1 OR FLATTER THAT ARE SUFFICIENTLY FRIABLE.
    - RIPPING AREAS THAT WILL NOT BREAK UP USING ITEMS a OR b ABOVE.
  - CONDITIONING THE SOILS SO THAT IT IS SUITABLE FOR PLANTING BY:
    - ADJUSTING THE SURFACE SOIL MOISTURE TO PROVIDE A DAMP BUT NOT SATURATED SEED BED.
    - THE ADDITION OF SOIL AMENDMENTS, PH ADJUSTMENT, LEACHING OR COVERING SALINE SOILS TO PROVIDED VIALBE CONDITIONS FOR GROWTH.
- E. HYDROSEEDING AREAS SHALL BE MAINTAINED TO PROVIDE A MOOROUS GROWTH UNTIL THE PROJECT IS PERMANENTLY LANDSCAPED OR, FOR AREAS WHERE HYDROSEEDING IS THE PERMANENT LANDSCAPING, UNTIL THE PROJECT IS COMPLETED AND ALL BONDS RELEASED.

LEGEND

DESCRIPTION	QUANTITY	SYMBOL
STABILIZED CONSTRUCTION ENTRANCE		
STRAW BALE DIKE		
SILT FENCE		
UNLINED SWALE & BERM		
D-75 LINED SWALE		
BLOCK-SCREEN-GRAVEL SILT BASIN		
HAY BALE SILT BARRIER		
LIMITS OF CLEARING & GRADING		
GRAVEL BAGS		
PUNCHED STRAW		
LOG CHECK DAM		
HAY BALE CHECK DAM		
GRAVEL CHECK DAM		
RIPRAP		

"AS BUILT"

RCE \_\_\_\_\_ EXP. \_\_\_\_\_ DATE \_\_\_\_\_

REVIEWED BY: \_\_\_\_\_

INSPECTOR \_\_\_\_\_ DATE \_\_\_\_\_

SHEET		CITY OF CARLSBAD		SHEETS	
		ENGINEERING DEPARTMENT			
APPROVED _____ LLOYD B. HUBBS					
CITY ENGINEER PE 23889 EXP. 12/31/05 DATE _____					
OWN BY: _____		PROJECT NO. _____		DRAWING NO. _____	
CHKD BY: _____					
RVWD BY: _____					
DATE	INITIAL	REVISION DESCRIPTION	DATE	INITIAL	DATE
ENGINEER OF WORK			OTHER APPROVAL		CITY APPROVAL

# GENERAL NOTES

- THIS PLAN SUPERSEDES ALL OTHER PLANS PREVIOUSLY APPROVED BY THE CITY OF CARLSBAD REGARDING IMPROVEMENTS SHOWN ON THIS SET OF PLANS.
- APPROVAL OF THIS PLAN DOES NOT LESSEN OR WAIVE ANY PORTION OF THE CARLSBAD MUNICIPAL CODE, RESOLUTION OF CONDITIONAL APPROVAL, CITY STANDARDS OR OTHER ADDITIONAL DOCUMENTS LISTED HEREON AS THEY PERTAIN TO THIS PROJECT. THE ENGINEER IN RESPONSIBLE CHARGE SHALL REVISION THESE PLANS WHEN NON-COMFORMANCE IS DISCOVERED.
- CITY APPROVAL OF PLANS DOES NOT RELIEVE THE DEVELOPER OR ENGINEER-OF-WORK FROM RESPONSIBILITY FOR THE CORRECTION OF ERRORS AND OMISSIONS DISCOVERED DURING CONSTRUCTION. ALL PLAN REVISIONS SHALL BE PROMPTLY SUBMITTED TO THE CITY ENGINEER FOR APPROVAL.
- A RIGHT-OF-WAY PERMIT FROM THE CITY ENGINEER WILL BE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT OF WAY. PRIOR TO PERMIT ISSUANCE A CERTIFICATE OF INSURANCE MUST BE FILED NAMING THE CITY OF CARLSBAD AS AN ADDITIONAL INSURED ON THE PERMITTEE'S POLICY IN THE MINIMUM AMOUNT OF \$1,000,000.00 FOR EACH OCCURRENCE OF LIABILITY. THE INSURANCE COMPANY WRITING THE POLICY MUST HAVE A RATING OF "A" AND A SIZE CATEGORY OF CLASS "V" AS ESTABLISHED BY "BEST'S" KEY-RATING GUIDE.
- NO WORK SHALL BE COMMENCED UNTIL ALL PERMITS HAVE BEEN OBTAINED FROM THE CITY AND OTHER APPROPRIATE AGENCIES.
- REVISION OF THESE PLANS MAY BE REQUIRED IF THE PROPOSED IMPROVEMENTS ARE NOT CONSTRUCTED PRIOR TO THE DEADLINE DATE OF THE IMPROVEMENT AGREEMENT.
- NO REVISIONS WILL BE MADE TO THESE PLANS WITHOUT THE WRITTEN APPROVAL OF THE CITY ENGINEER, NOTED WITHIN THE REVISION BLOCK, ON THE APPROPRIATE SHEET OF THE PLANS AND TITLE SHEET.
- ORIGINAL DRAWINGS SHALL BECOME THE PROPERTY OF THE CITY UPON BEING SIGNED BY THE CITY ENGINEER.
- THE ORIGINAL DRAWING SHALL BE REVISED TO REFLECT AS-BUILT CONDITIONS BY THE ENGINEER-OF-WORK PRIOR TO FINAL ACCEPTANCE OF THE WORK BY THE CITY.
- ACCESS FOR FIRE AND OTHER EMERGENCY VEHICLES SHALL BE MAINTAINED TO THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.
- WHERE TRENCHES ARE WITHIN CITY EASEMENTS, A SOILS REPORT COMPRISED OF: (A) SUMMARY SHEET, (B) LABORATORY WORK SHEETS AND (C) COMPACTION CURVES, SHALL BE SUBMITTED BY A PROFESSIONAL ENGINEER OF THE STATE OF CALIFORNIA, PRINCIPALLY DOING BUSINESS IN THE FIELD OF APPLIED SOILS MECHANICS. THE SOILS REPORT WILL BE SUBMITTED TO THE CITY ENGINEERING INSPECTOR WITHIN 10 WORKING DAYS OF COMPLETION OF FIELD TESTS. THE WRITTEN FIELD COMPACTION REPORT(S) SHALL BE IMMEDIATELY SUBMITTED TO THE CITY ENGINEERING INSPECTOR UPON COMPLETION OF THE FIELD TESTS.
- A PRECONSTRUCTION MEETING SHALL BE HELD AT THE SITE PRIOR TO THE BEGINNING OF WORK AND SHALL BE ATTENDED BY ALL REPRESENTATIVES RESPONSIBLE FOR CONSTRUCTION, INSPECTION, SUPERVISION, TESTING AND ALL OTHER ASPECTS OF THE WORK. THE CONTRACTOR SHALL SCHEDULE THE MEETING THROUGH THE PERMIT CLERK (438-3634) AT LEAST FIVE(5) WORKING DAYS PRIOR TO STARTING CONSTRUCTION. APPROVED DRAWINGS MUST BE AVAILABLE PRIOR TO SCHEDULING.
- ALL INSPECTION REQUESTS OTHER THAN FOR PRECONSTRUCTION MEETING WILL BE MADE BY CALLING THE ENGINEERING 24-HOUR INSPECTION REQUEST LINE AT (760) 438-3691. INSPECTION REQUESTS MUST BE RECEIVED PRIOR TO 2:00 P.M. ON THE DAY BEFORE THE INSPECTION IS NEEDED. INSPECTIONS WILL BE MADE THE NEXT WORK DAY UNLESS YOU REQUEST OTHERWISE. REQUESTS MADE AFTER 2:00 P.M. WILL BE SCHEDULED FOR TWO FULL WORK DAYS LATER.
- THE OWNER AND/OR APPLICANT THROUGH THE DEVELOPER AND/OR CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
- THE CONTRACTOR SHALL CONFORM TO LABOR CODE SECTION 6705 BY SUBMITTING A DETAILED PLAN TO THE CITY ENGINEER AND/OR CONCERNED AGENCY SHOWING THE DESIGN OF SHORING, BRACING SLOPING OR OTHER PROVISIONS TO BE MADE OF WORKER PROTECTION FROM THE HAZARD OF CAVING GROUND DURING THE EXCAVATION OF SUCH TRENCH OR TRENCHES OR DURING THE PIPE INSTALLATION THEREIN. THIS PLAN MUST BE PREPARED FOR ALL TRENCHES FIVE FEET (5') OR MORE IN DEPTH AND APPROVED BY THE CITY ENGINEER AND/OR CONCERNED AGENCY PRIOR TO EXCAVATION. IF THE PLAN VARIES FROM THE SHORING SYSTEM STANDARDS ESTABLISHED BY THE CONSTRUCTION SAFETY ORDERS, TITLE 8 CALIFORNIA ADMINISTRATIVE CODE, THE PLAN SHALL BE PREPARED BY AN ENGINEER AT THE CONTRACTORS EXPENSE. A COPY OF THE OSHA EXCAVATION PERMIT MUST BE SUBMITTED TO THE INSPECTOR PRIOR TO EXCAVATION.
- IF ANY ARCHAEOLOGICAL RESOURCES ARE DISCOVERED WITHIN ANY WORK ZONE DURING CONSTRUCTION, OPERATIONS WILL CEASE IMMEDIATELY, AND THE PERMITTEE WILL NOTIFY THE CITY ENGINEER. OPERATIONS WILL NOT RESTART UNTIL THE PERMITTEE HAS RECEIVED WRITTEN AUTHORITY FROM THE CITY ENGINEER TO DO SO.
- ALL OPERATIONS CONDUCTED ON THE SITE OR ADJACENT THERETO, INCLUDING WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR OPERATION OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED GRADING EQUIPMENT SHALL BE LIMITED TO THE PERIOD BETWEEN 7:00 A.M. AND "SUNSET EACH DAY, MONDAY THRU FRIDAY AND NO EARTHMOVING OR GRADING OPERATIONS SHALL BE CONDUCTED ON WEEKENDS OR HOLIDAYS. (A LIST OF CITY HOLIDAYS IS AVAILABLE AT THE ENGINEERING DEPARTMENT COUNTER.)
- ALL OFF-SITE HAUL ROUTES SHALL BE SUBMITTED BY THE CONTRACTOR TO THE CITY ENGINEER FOR APPROVAL TWO FULL WORKING DAYS PRIOR TO BEGINNING OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEBRIS OR DAMAGE OCCURRING ALONG THE HAUL ROUTE OR ADJACENT STREETS AS A RESULT OF THE GRADING OPERATION.
- NO BLASTING SHALL BE COMMENCED WITHOUT A CITY ENGINEER APPROVED BLASTING PROGRAM.
- THE EXISTENCE AND LOCATION OF UTILITY STRUCTURES AND FACILITIES SHOWN ON THE CONSTRUCTION PLANS WERE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. ATTENTION IS CALLED TO THE POSSIBLE EXISTENCE OF OTHER UTILITY FACILITIES OR STRUCTURES NOT SHOWN OR IN A LOCATION DIFFERENT FROM THAT SHOWN ON THE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN ON THE PLANS AND ANY OTHER EXISTING FACILITIES OR STRUCTURES NOT SHOWN.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVEGROUND AND UNDERGROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF THE CONSTRUCTION TO PERMIT THE REVISIONS OF THE CONSTRUCTION PLANS IF IT IS FOUND THAT THE ACTUAL LOCATIONS ARE IN CONFLICT WITH THE PROPOSED WORK.
- THE CONTRACTOR SHALL NOTIFY AFFECTED UTILITY COMPANIES (SEE BELOW) AT LEAST TWO FULL WORKING DAYS PRIOR TO STARTING CONSTRUCTION NEAR THEIR FACILITIES AND SHALL COORDINATE WORK WITH A COMPANY REPRESENTATIVE.

**HUNSAKER & ASSOCIATES**  
SAN DIEGO, INC.  
PLANNING 1079 Huennekens Street  
ENGINEERING San Diego, Ca 92121  
SURVEYING PH089558-4500 FAX089558-4414

# STREET NOTES

- ACTUAL STRUCTURAL SECTIONS WILL BE DETERMINED AFTER "R" VALUE TESTS HAVE BEEN CONDUCTED BY A PROFESSIONAL ENGINEER OF THE STATE OF CALIFORNIA, PRINCIPALLY DOING BUSINESS IN THE FIELD OF APPLIED SOIL MECHANICS, ON THE PREPARED BASEMENT SOIL. THE "R" VALUE TESTS AND THE ENGINEERED STRUCTURAL SECTION MUST BE SUBMITTED TO THE ENGINEERING INSPECTOR FOR REVIEW AND APPROVAL A MINIMUM OF TWO (2) CITY WORKING DAYS BEFORE THE WORK BEGINS.
- STREET LIGHTS SHALL BE INSTALLED AS SHOWN ON THESE PLANS. UNDERGROUND CONDUIT RUNS, SERVICE POINTS AND HAND-HOLES SHALL BE SHOWN ON THE "AS-BUILT" PLANS. NO DIRECT BURIAL STREET LIGHT FOUNDATIONS WILL BE ALLOWED. ALL LUMINAIRES SHALL BE "CUT OFF" TYPE.
- ALL UNDERGROUND UTILITIES AND LATERALS SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF CURBS, CROSS OUTTERS OR SURFACING OF STREETS.
- STORM DRAIN PIPE SHALL BE REINFORCED CONCRETE PIPE WITH A MINIMUM D-LOAD OF 1,350 OR ASBESTOS CEMENT PIPE WITH A MINIMUM D-LOAD OF 2 TIMES THE MINIMUM D-LOAD REQUIRED FOR RCP.  
FOR PRIVATE STORM DRAIN PIPES, UP TO 15" PVC MAY BE UTILIZED PROVIDED DEPTH IS LESS THAN 16 FEET AND BACKFILLED WITH 3/4" ROCK PER SDRS 5-4 TYPE "C" AND PIPE MEETS ASTM STANDARD 3034 FOR SDR 35 SOLID WALL PIPE.
- WHERE AN EXISTING PIPE LINE IS TO BE ABANDONED IT SHALL BE REMOVED WITHIN TWENTY FEET OF BUILDING OR STREET AREAS AND REPLACED WITH PROPERLY COMPACTED SOILS. IN OTHER AREAS THE PIPE WILL BE PLUGGED WITH CONCRETE OR REMOVED AS APPROVED BY THE CITY ENGINEER.
- WHEELCHAIR RAMPS SHALL BE INSTALLED PER REQUIREMENTS OF TITLE 24, CALIFORNIA ADMINISTRATIVE CODE.
- STREET TREES SHALL BE INSTALLED PER SECTION IV D.3 OF THE CITY OF CARLSBAD LANDSCAPE MANUAL.
- FIRE HYDRANT MARKERS SHALL BE PLACED IN THE STREET WITHIN THE LIMITS OF WORK OF THIS PLAN PER SDRS DWG M19.
- ALL SURVEY MONUMENTS AND POINTS THAT ARE DISTURBED BY THIS WORK SHALL BE RE-ESTABLISHED, PERPETUATED, AND DOCUMENTED PER THE PROFESSIONAL LAND SURVEYORS ACT.
- TWO (2) SETS OF SURVEY (CUT) SHEETS SHALL BE PROVIDED TO THE CITY ENGINEERING INSPECTOR.

# "DECLARATION OF RESPONSIBLE CHARGE"

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF CARLSBAD DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

FIRM: HUNSAKER & ASSOCIATES  
ADDRESS: 10179 HUNNEKENS AVE  
CITY, ST.: SAN DIEGO, CA  
TELEPHONE: (619) 458-4500  
BY: *Raymond L. Martin* DATE: 2/10/03  
P.E. NO.: RCE 48670  
EXPIRATION DATE: 6/30/04

# REFERENCE DRAWINGS

CITY OF CARLSBAD DRAWING 397-1B  
OMMD IMPROVEMENT NO. 1 UNIT 0

# SOURCE OF TOPOGRAPHY

R. J. LUNG AND ASSOCIATES  
DATED APRIL 2000 AND THE ROUGH GRADING PLANS (DRAWING 397-1A)

# OWNERS / PERMITTEES

REAL ESTATE COLLATERAL MANAGEMENT COMPANY,  
A DELAWARE CORPORATION  
1903 WRIGHT PLACE  
SUITE 180  
CARLSBAD, CA 92008  
(760) 929-2701

# LEGAL DESCRIPTION

LA COSTA OAKS NEIGHBORHOODS 3.10 AND 3.11 (CT 02-02)

BEING A SUBDIVISION OF LOTS 171 AND 172 OF CITY OF CARLSBAD TRACT CT 99-04-01, VILLAGES OF LA COSTA - LA COSTA OAKS SOUTH, IN THE CITY OF CARLSBAD, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO MAP THEREOF NO. 14379 FILED IN THE OFFICE OF THE SAN DIEGO COUNTY RECORDER ON APRIL 29, 2002 AS FILE NO. 2002-0358064 OF OFFICIAL RECORDS.

# PROJECT LOCATION

THIS PROJECT IS LOCATED WITHIN ASSESSORS PARCEL NUMBER(S) 223-071-091(POR) 223-071-071(POR) 223-071-091(POR) 223-050-691(POR)  
THE CALIFORNIA COORDINATE INDEX OF THIS PROJECT IS N 1978 E 6268

# BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM - 1983, ZONE VI, 1991.35 EPOCH, NORTH AMERICAN DATUM OF 1983 (NAD83), GRID BEARINGS BETWEEN STATION 147 AND STATION 152 AS SAID COORDINATES ARE PUBLISHED IN THE CITY OF CARLSBAD SURVEY CONTROL NETWORK ESTABLISHED BY COUNTY RECORDER ON FEBRUARY 8, 2002.  
IE: 104°55'33" W  
REFERENCED BEARINGS FROM OTHER DOCUMENTS/DEEDS MAY OR MAY NOT BE IN TERMS OF SAID SYSTEM THE COMBINED SCALE FACTOR AT STATION 147 IS 0.99993947. GRID DISTANCE = GROUND DISTANCE X COMBINED SCALE FACTOR.

# SHEET INDEX

NOTES AND LEGEND SHEET 1  
KEY MAP AND SECTIONS SHEET 2  
IMPROVEMENTS SHEET 3-9  
SEWER LATERAL TABLE SHEET 10

# ENGINEER'S NOTES

- NEITHER THE OWNER, NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
- CONTRACTOR HAS SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE TO INSURE THAT ALL SLOPES, STREETS, UTILITIES, AND STORM DRAINS ARE BUILT IN ACCORDANCE WITH THESE PLANS. IF THERE IS ANY QUESTION REGARDING THESE PLANS OR FIELD STAKES, THE CONTRACTOR SHALL REQUEST AN INTERPRETATION BEFORE DOING ANY WORK BY CALLING THE ENGINEER OF WORK AT 558-4500. THE CONTRACTOR SHALL ALSO TAKE THE NECESSARY STEPS TO PROTECT THE PROJECT AND ADJACENT PROPERTY FROM ANY EROSION AND SILTATION THAT MIGHT RESULT FROM HIS OPERATIONS BY APPROPRIATE MEANS (GRAVEL BAGS, HAY BALES, TEMPORARY DESILTING BASINS, Dikes, Shoring, ETC.) UNTIL SUCH TIME THE PROJECT IS COMPLETED AND ACCEPTED FOR MAINTENANCE BY THE OWNER.
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON WERE OBTAINED BY SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO OTHER EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. BEFORE EXCAVATING FOR THIS CONTRACT, THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL UNDERGROUND UTILITIES AFFECTING THE WORK, WHETHER SHOWN ON THE PLANS OR NOT. SPECIFIC ATTENTION SHALL BE MADE IN AREAS WHERE THE PROPOSED IMPROVEMENTS MEET EXISTING. CONTRACTOR SHALL NOTIFY THE ENGINEER OF WORK OF ANY DEVIATIONS PRIOR TO ORDERING MATERIALS FOR THE PROJECT, AND ALLOW SUFFICIENT TIME FOR REVISION TO THESE PLANS IF AS-BUILT LOCATION OF EXISTING UTILITIES REQUIRE CHANGES TO THE DESIGN.
- CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT EXISTING ABOVE GROUND AND UNDERGROUND IMPROVEMENTS SHOWN HEREON AS WELL AS EXISTING UTILITIES NOT SHOWN HEREON. CONTRACTOR SHALL REPAIR OR REPLACE ITEMS REQUIRED TO REMAIN IN PLACE WHICH ARE DAMAGED, DURING THE COMPLETION OF THE WORK, TO THE SATISFACTION OF THE APPROPRIATE AGENCY.
- THESE PLANS SHOWN THE MINIMUM IMPROVEMENT REQUIRED BY THE APPROVING AUTHORITY IN ORDER TO OBTAIN PROJECT APPROVAL. FIELD CONDITIONS MAY REQUIRE ADDITIONAL IMPROVEMENTS. THE COST OF ANY ADDITIONAL IMPROVEMENTS SHALL BE BORNE BY THE CONTRACTOR. ANY ADDITIONAL TESTING BY THE SOILS ENGINEER OR OTHER PROFESSIONALS SHALL BE COMPLETED AT THE CONTRACTOR EXPENSE.
- PRIOR TO ORDERING MATERIALS OR BEGINNING CONSTRUCTION, WHICHEVER OCCURS FIRST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF WORK IN WRITING, WHENEVER THESE PLANS SEEM UNCLEAR.

# LEGEND OF ABBREVIATIONS

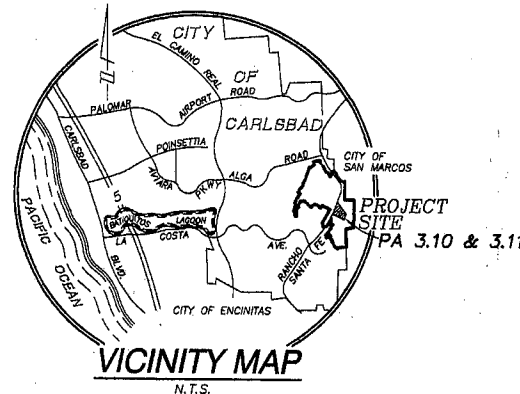
TC	TOP OF CURB
GB	GRADE BREAK
BVC	BEGIN VERTICAL CURVE
EVC	END VERTICAL CURVE
VPI	VERTICAL POINT OF INTERSECTION
EC	END CURVE
HP	HIGH POINT
LP	LOW POINT
FL	FLOW LINE
DWY	DRIVEWAY
FS	FINISHED SURFACE
PCR	POINT OF REVERSE CURVE
ST	STREET
RT	RIGHT
LT	LEFT
TW	TOP OF WALL
PCR	POINT CURB RETURN
MVC	MODIFIED VERTICAL CURVE
CL	CENTERLINE
BW	BOTTOM OF WALL
N.T.S.	NOT TO SCALE
CTB	CEMENT TREATED BASE
RP	RADIUS POINT
EOP	EDGE OF PAVEMENT
CDS	CUL-DE-SAC STATONING
RCP	REINFORCED CONCRETE PIPE
SD	STORM DRAIN
KNU	KNUCKLE STATONING
CC	CENTER OF CUL-DE-SAC

# ENGINEER'S NOTES (CONT.)

- THE CONTRACTOR SHALL NOTIFY THE SURVEYORS 48 HOURS PRIOR TO BACKFILLING TRENCHES FOR ALL NEW UTILITIES. THE SURVEYOR SHALL OBTAIN NECESSARY FIELD SHOTS TO PROVIDE THE ENGINEER OF WORK WITH A LETTER OF CERTIFICATION STATING THAT ALL IMPROVEMENTS ARE CONSTRUCTED IN SUBSTANTIAL CONFORMANCE WITH THE LINES AND GRADES SHOWN HEREON. THE CERTIFICATION SHALL INCLUDE ALL ITEMS REQUIRED BY THE APPROVING AUTHORITY.
- THE GENERAL CONTRACTOR IS REQUIRED TO KEEP AND MAINTAIN A SIGNED SET OF THESE PLANS ON SITE AT ALL TIMES FOR USE BY THE ENGINEER OF WORK, SOILS ENGINEER AND THE CITY INSPECTOR. THE GENERAL CONTRACTOR'S SUPERINTENDANT IS REQUIRED TO UPDATE SAID PLANS WITH AS-BUILT ON A DAILY BASIS AS WORK PROGRESSES. SAID PLANS SHALL BE CERTIFIED BY THE SUPERINTENDANT AS ACCURATE AND COMPLETE UPON COMPLETION OF THE PROJECT, AND BECOME THE PROPERTY OF THE ENGINEER OF WORK.
- STATIONING OF DRIVEWAYS, LATERALS AND PROPERTY LINES ON CUL DE SAC'S AND KNUCKLES ARE AT THE RIGHT OF WAY. PRC AND PCR STATIONS ARE AT THE CURB.
- RETAINING WALLS, IF SHOWN HEREON, ARE INCLUDED AS SUPPLEMENTARY INFORMATION. DETAILED PLANS, A SEPARATE PERMIT AND INSPECTION IS REQUIRED FROM THE BUILDING DEPARTMENT FOR ALL RETAINING WALLS.
- THE SOILS REPORT AND ALL THE SUPPLEMENTS THEREOF ARE INCORPORATED INTO AND MADE A PART OF THIS PLAN. ALL CONSTRUCTION SHALL CONFORM WITH AND BE SUBJECT TO ANY TESTING OR INSPECTION REQUIREMENTS IN THE REPORT.
- CONTRACTOR SHALL INSTALL THRUST BLOCKS AT ALL ANGLE POINTS AND TEES IN WATER SYSTEMS PURSUANT TO THE APPROPRIATE WATER DISTRICT STANDARD.
- CONTRACTOR SHALL SUBMIT AN AS-BUILT PLAN INDICATING ALL STREET LIGHT CONDUIT RUNS, ACCESS POINTS, HAND HOLES AND SERVICE POINTS PRIOR TO ENERGIZING THE SYSTEM.
- ALL SEWER LINE BEDDING SHALL BE 3/4" BACKFILL PER SDRS 5-4, TYPE C. PVC SEWER PIPE SHALL MEET ASTM STD. 3034 FOR SDR 35 SOLID WALL PIPE.

# STORM DRAIN NOTES

- STORM DRAIN PROFILES SHOW A GRAPHICAL REPRESENTATION OF THE CALCULATED HGL DURING THE DESIGN STORM, AS REQUIRED BY THE CITY. THE CALCULATED HGL CAN BE FOUND IN THE APPROVED STORM DRAINAGE REPORT ON FILE AT THE OFFICE OF THE CITY ENGINEER. ENGINEER IS NOT RESPONSIBLE FOR USE OF THE HGL SHOWN HEREON, BY OTHERS, WHEN MAKING ADDITIONAL CONNECTIONS OR REALIGNING THE SYSTEM. CHANGES TO THE SYSTEM, REQUIRE APPROVAL OF A REGISTERED ENGINEER RESPONSIBLE FOR THE REVISIONS.
- STORM DRAIN PIPES DESIGNATED AS HAVING THE HGL AT OR ABOVE THE PIPE SOFFIT SHALL BE CONSTRUCTED WITH WATER TIGHT JOINTS WITH BACON REINFORCED CONCRETE PIPE WITH REINFORCED THERMOSETTING RESIN (RTR) COUPLING OR EQUAL FOR THE ENTIRE REACH. COUPLING SHALL MEET THE REQUIREMENTS OF ASTM C76, C361, AND C443.
- STORM DRAIN PIPES WITH VELOCITIES EXCEEDING 20 FEET PER SECOND SHALL HAVE A MINIMUM COVER OF 1-1/2 INCH OVER THE INVERT REINFORCING STEEL. THE CONCRETE DESIGN STRENGTH IN THESE REACHES SHALL BE  $f_c = 5,000$  PSI. FOR VELOCITIES EXCEEDING 30 FEET PER SECOND, USE  $f_c = 6,000$  PSI.



# FIRE HYDRANT LAYOUT PLAN



**BENCH MARK**  
DESCRIPTION: U.S.C. & G.X. BRASS DISC STAMPED "K302, 1935" IN CONC. MON.  
LOCATION: POINT LIES 8.5' EASTERLY OF EASTERN BENCH MARK ON RANCHO SANTA FE ROAD, 1/4 MILE NORTHERLY OF TRANSMISSION LINE POLE MARKED "143011" AND APPROXIMATELY 1.2 MILES NORTHERLY OF THE INTERSECTION OF SANTA FE ROAD AND LA COSTA AVENUE.  
ELEVATION: 533.39 NGVD 29 MSL

# IMPORTANT NOTICE

SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIGALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID. FOR YOUR DIGALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT AT:  
TOLL FREE 1-800-422-4133  
TWO WORKING DAYS BEFORE YOU DIG

# WORK TO BE DONE

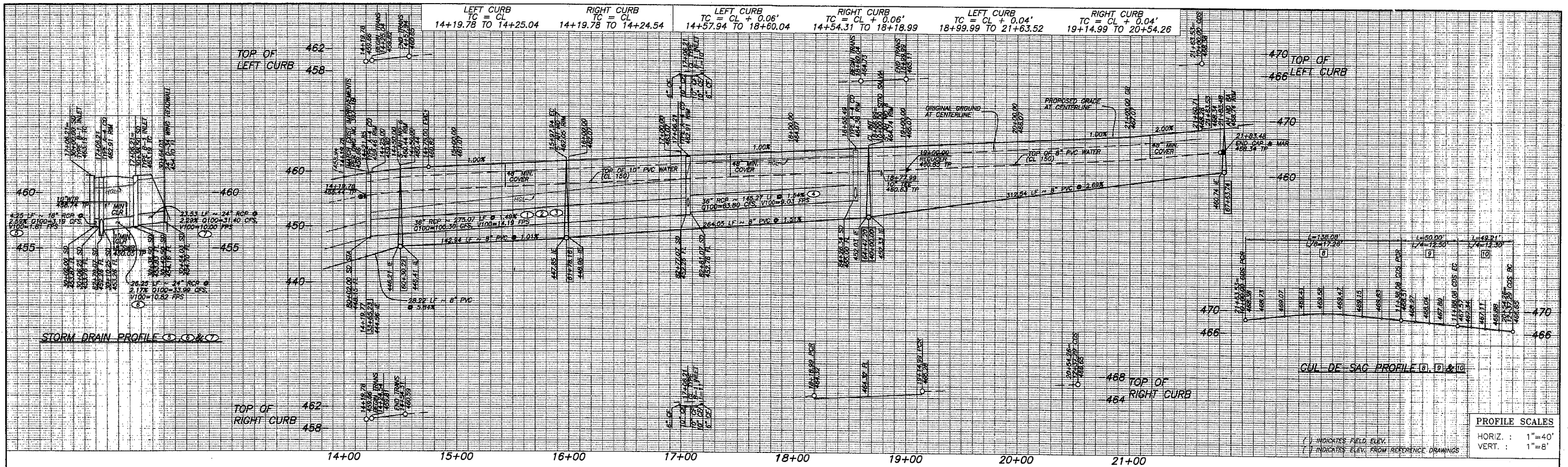
DESCRIPTION	STD. DWG.	SYMBOL	QUANTITY
SUBDIVISION BOUNDARY			
RIGHT OF WAY LINE			
PROPERTY LINE			
EASEMENT LINE			
A.C. PAVING/BASE			126,727 S.F.
6" CURB & GUTTER	G-2		6,948 L.F.
PEDESTRIAN RAMP TYPE "A"	G-27		4 E.A.
CROSS GUTTER	G-12		1,190 S.F.
MODIFIED CROSS GUTTER	GS-10**		
CONCRETE SIDEWALK	G-7, G-9, G-10		29,866 S.F.
DRIVEWAY	G-14**		12,411 S.F.
STREET LIGHT 9,500 LUM (HPSV)	E-1**, E-2, M-21		14 E.A.
STREET CENTERLINE MONUMENT	M-10		18 E.A.
EXISTING STORM DRAIN			
STORM DRAIN			2,103 L.F.
CURB INLET TYPE "B"	D-2**, DS-1		2 E.A.
CURB INLET TYPE "B-1"	D-2**, DS-1		6 E.A.
CURB INLET TYPE "B-2"	D-2**, DS-1		1 E.A.
CATCH BASIN TYPE "F"	D-7		3 E.A.
CONCRETE LUG	D-63		1 E.A.
TYPE D-34 HEADWALL	D-34		2 E.A.
CLEANOUT TYPE "A-4"	D-9		9 E.A.
PROPOSED SEWER MAIN(SDR 35)	*S-11, S-12		2,895 L.F.
PROPOSED SEWER MANHOLE	*S-3, *S-4, S-4		12 E.A.
PROPOSED SEWER CLEANOUT	S-3		1 E.A.
EXISTING SEWER			
SEWER LATERAL W/TRAFFIC LID	*S-17, S-18		67 E.A.
EXISTING WATER LINE			
PROPOSED WATER MAIN	***E-3.1		3,373 L.F.
GATE VALVE	***D-2.2		4 E.A.
FIRE HYDRANT ASSEMBLY WITH MARKER	***C-1.1		9 E.A.
1" WATER SERVICE	***B-1.1		79 E.A.
END CAP ASSEMBLY	***D-3.3		3 E.A.
PO X PO X FLANGE TEE W/FLANGE VALVE	***D-3.3		
2" MANUAL AIR RELEASE	***A-2.3		
2" BLOW OFF ASSEMBLY	***A-1.1		
2" IRRIGATION METER	***D-3.1		1 E.A.
PO X PO REDUCER	***D-3.1		1 E.A.
STREET SIGN, (TYPE PER PLAN)	SDM-102		
PER CAL TRANS TRAFFIC MANUAL			
12" WHITE LIMIT LINE "STOP" PAVEMENT LEGEND			
PER CAL TRANS TRAFFIC MANUAL (THERMOPLASTIC)			

\* LCWD STANDARD DRAWING  
\*\* AS MODIFIED BY THE CITY OF CARLSBAD STANDARDS  
\*\*\* OMMD STANDARD DRAWING

ENGINEER OF WORK	
<i>Raymond L. Martin</i>	DATE 2/10/03
RAYMOND L. MARTIN R.C.E. NO. 48670 EXP. 6/30/04	
"AS BUILT"	
RCE	EXP. DATE
REVIEWED BY:	DATE
INSPECTOR	DATE
CITY OF CARLSBAD ENGINEERING DEPARTMENT	
SHEET 1	SHEETS 10
IMPROVEMENT AND UTILITY PLANS FOR: VILLAGES OF LA COSTA-LA COSTA OAKS SOUTH-NEIGHBORHOODS 3.10-3.11	
APPROVED LLOYD HUBBS BY <i>Lloyd Hubbs</i> DATE 2/10/03	
CITY ENGINEER RCE 48670 EXP. 12/31/05	
DWN BY: <i>RSM</i>	PROJECT NO. CT 02-02
CHKD BY: <i>RSM</i>	DRAWING NO. 399-6
RVWD BY:	



SCANNED DATE 3-2-04



PROFILE SCALES

HORIZ. : 1"=40'  
VERT. : 1"=8'

( ) INDICATES FIELD ELEV.  
( ) INDICATES ELEV. FROM REFERENCE DRAWINGS

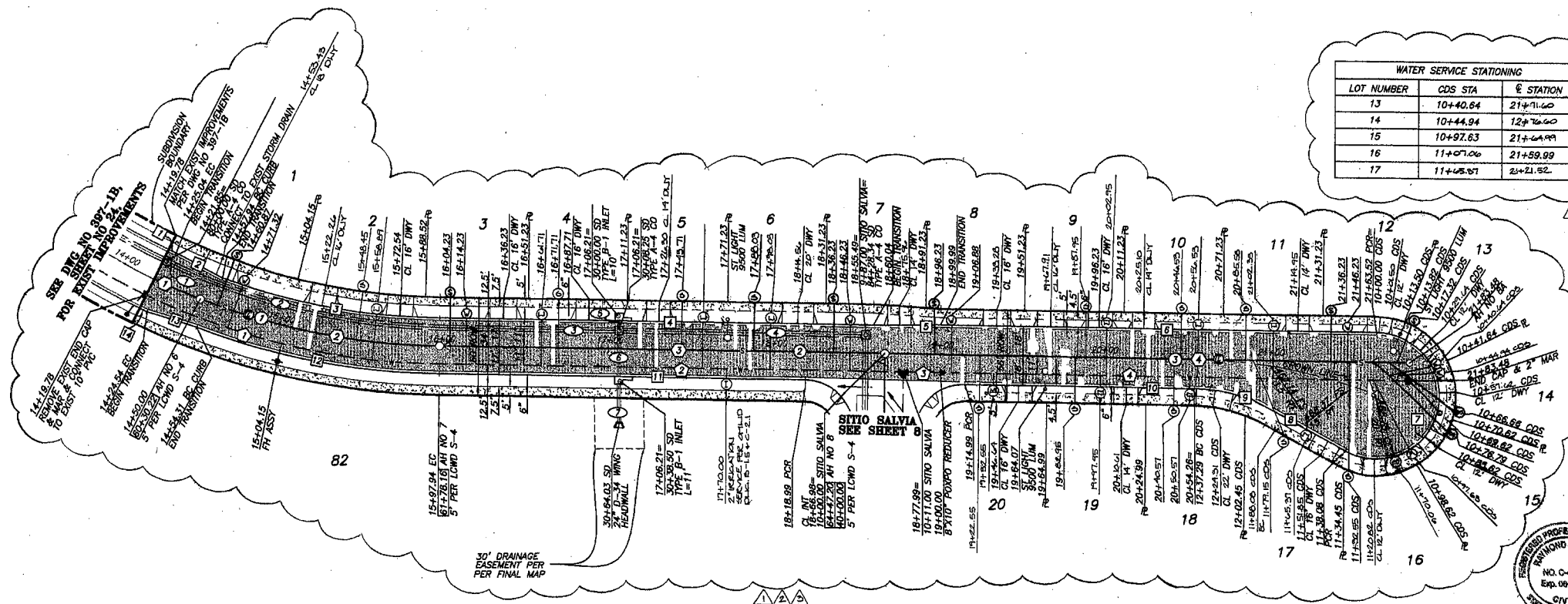
CENTERLINE DATA			
BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 25°31'12"	400.00'	178.18'	
2 N 57°05'00" W		269.04'	
3 N 57°05'00" W		296.54'	

CURB DATA			
BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 0°45'14"	382.00'	5.00'	6" TYPE G C&G
2 N 29°12'51" W		31.51'	6" TYPE G C&G
3 20°03'15"	383.00'	134.05'	6" TYPE G C&G
4 N 57°05'00" W		262.09'	6" TYPE G C&G
5 N 58°31'02" W		39.96'	6" TYPE G C&G
6 N 57°05'00" W		263.54'	6" TYPE G C&G
7 208°11'45"	38.00'	138.08'	6" TYPE G C&G
8 N 28°53'15" W		50.00'	6" TYPE G C&G
9 28°11'45"	100.00'	49.21'	6" TYPE G C&G
10 N 57°05'00" W		139.27'	6" TYPE G C&G
11 N 57°05'00" W		221.04'	6" TYPE G C&G
12 20°34'29"	417.00'	149.74'	6" TYPE G C&G
13 N 39°52'39" W		31.28'	6" TYPE G C&G
14 0°40'56"	420.00'	5.00'	6" TYPE G C&G

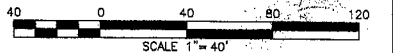
WATER DATA			
BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 25°31'12"	411.00'	183.06'	10" PVC CL 150
2 N 57°05'00" W		280.04'	10" PVC CL 150
3 N 57°05'00" W		22.01'	10" PVC CL 150
4 N 57°05'00" W		271.99'	8" PVC CL 150

STORM DRAIN DATA			
BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 N 32°04'04" W		3.45'	36" RCP D-1350"
2 25°00'56"		170.28'	36" RCP D-1350"
3 N 57°05'00" W		101.34'	36" RCP D-1350"
4 N 57°05'00" W		145.27'	36" RCP D-1350"
5 N 32°55'00" E		4.25'	18" RCP D-1350"
6 N 32°55'00" E		28.25'	24" RCP D-1350"
7 N 31°38'42" E		23.53'	24" RCP D-1350"

SEWER DATA			
BEARING/DELTA	RADIUS	LENGTH	REMARKS
1 4°19'43"	400.00'	30.22'	8" PVC
2 21°11'29"	400.00'	147.94'	8" PVC
3 N 57°05'00" W		269.04'	8" PVC
4 N 57°05'00" W		316.54'	8" PVC



WATER SERVICE STATIONING		
LOT NUMBER	CDS STA	E STATION
13	10+40.64	21+71.60
14	10+44.94	12+76.60
15	10+97.63	21+64.99
16	11+07.00	21+59.09
17	11+05.57	21+21.52



ENGINEER OF WORK  
*Raymond L. Martin* 2/10/02  
RAYMOND L. MARTIN DATE  
R.C.E. NO. 48870 EXP. 6/30/04  
"AS BUILT"  
RCE EXP. DATE  
REVIEWED BY: \_\_\_\_\_  
INSPECTOR \_\_\_\_\_ DATE

**HUNSAKER & ASSOCIATES**  
SAN DIEGO, INC.  
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San Diego, CA 92101  
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SHEET 7	CITY OF CARLSBAD ENGINEERING DEPARTMENT	SHEETS 10
IMPROVEMENT AND UTILITY PLANS FOR: VILLAGES OF LA COSTA-LA COSTA OAKS SOUTH-NEIGHBORHOODS 3.10-3.11		
APPROVED LLOYD HUBBS CITY ENGINEER RCE 2/10/02 OWN BY: <i>Lloyd Hubbs</i> CHKD BY: <i>RCE</i> RVD BY: <i>RCE</i>		
PROJECT NO. CT 02-02		DRAWING NO. 399-6

DATE	INITIAL	REVISION DESCRIPTION	DATE	INITIAL	OTHER APPROVAL
01/04/03	RLM	REVISE OTHER LATERALS	2/10/04	RLM	
01/04/03	RLM	REVISE WATER SERVICE & IRRIGATION	2/10/04	RLM	
01/04/03	RLM	REVISE DRIVEWAYS	2/10/04	RLM	
DATE	INITIAL		DATE	INITIAL	
ENGINEER OF WORK			OTHER APPROVAL		